



2020 NIROPS National Summary

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NIROPS Closeout



2020 – A Long Season

- 8.73 million acres burned, 2% acres in AK
- 126% of the ten-year US average (2010-2019)
- 150% of the ten-year CONUS average
- PL4 on 8/4, PL5 8/19-10/2, PL4 thru 10/13
- First missions June 1st in AZ
- Last mission Nov 12th?

Acres from IMSR 11/12/20

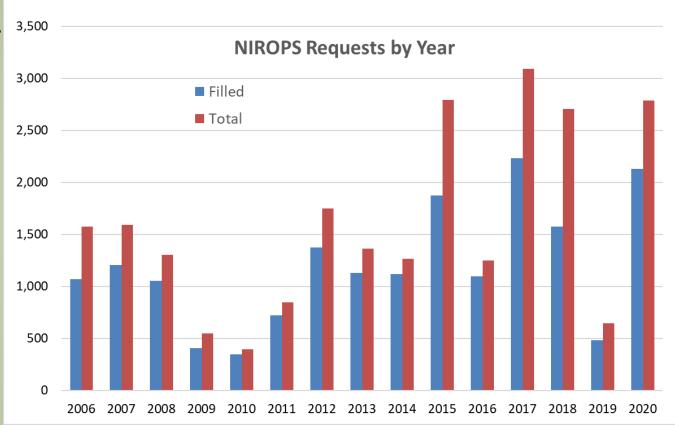
*PL = Preparedness Level (1 thru 5)

NATIONAL WELL OPERATIONS

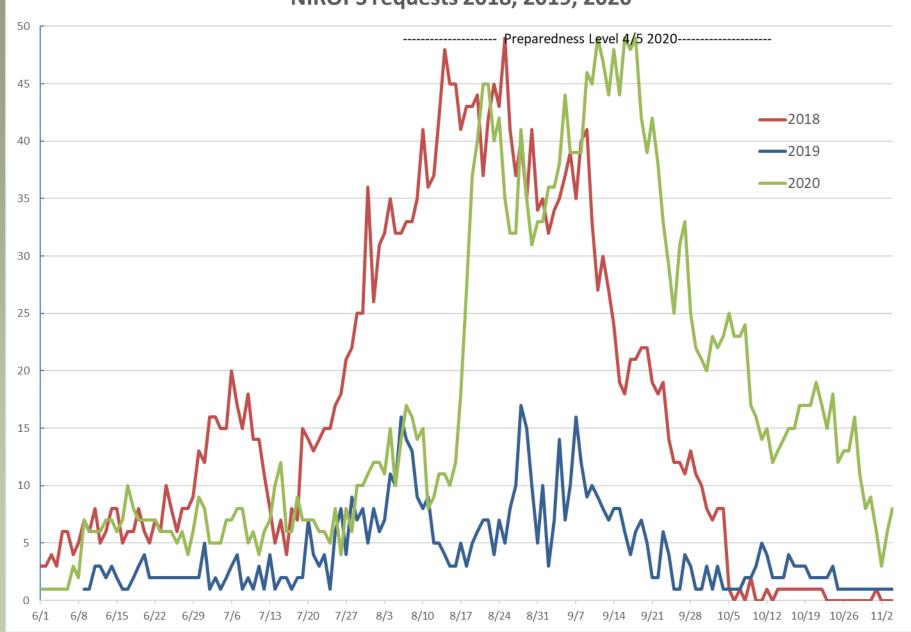


2020 NIROPS Requests

- 2,790 total requests with 2,128 filled
- 10 yr avg (2010-2019) 1,610 requests and 1,195 filled
- 5 yr avg (2015-2019) 2,096 requests and 1,452 filled
- 24% UTF rate,20% non-Wx UTF
- Aircraft 3 filled2% of missions



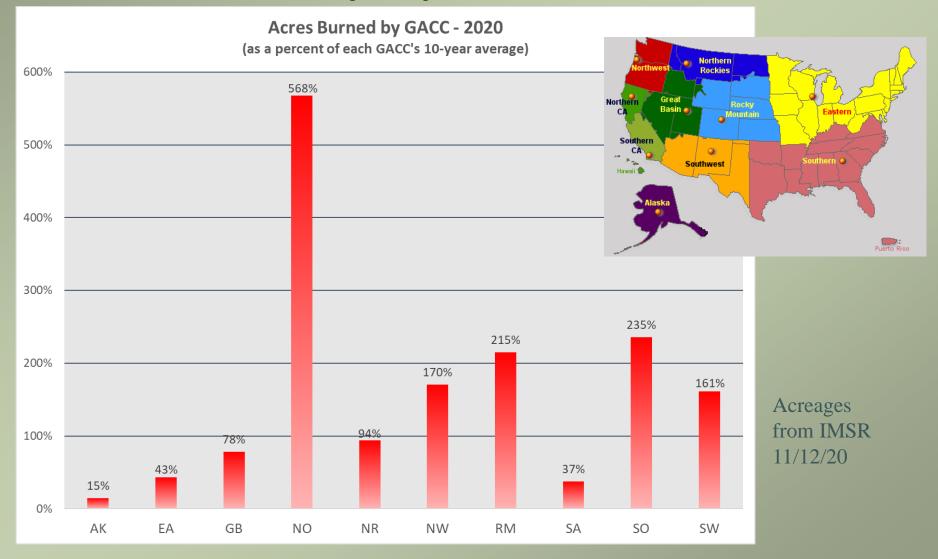




NATIONAL MARIE OPERATIONS



Fire Activity by GACC

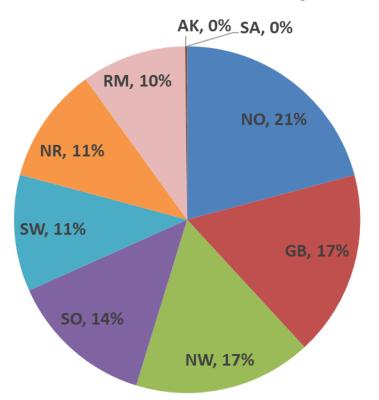






2020 – Orders by GACC

Percent of NIROPS orders by GACC







"Busiest" Night – Sept 5th, 38 Fires

- N149Z (20 fires)
 - Cameron Peak, Williams Fork(CO)
 - East Fork, Phinney Lake, Center Creek Trail (UT)
 - Double, Marion, Beaver, Buck,
 Shissler, Mocus Point, Porphyry,
 Warm Springs, Sponge (ID)
 - State Creek, Bobcat, Bridger
 Foothills, Rice, Snider, Cinnabar
 (MT)
- Courtney (3 fires)
 - SQF Cx, Creek, Slink (CA)

- Tenax (6 fires)
 - LNU Cx, BTU/TGU Cx, MNF August Cx, North Cx, Sheep, Woodward (CA)
- Owyhee (5 fires)
 - Hobo, Red Salmon, W-5 Cold Springs, CZU August Cx, Dolan (CA)
- Hood Tech (3 fires)
 - Beachie Creek, Lionshead, White River (OR)
- Kolob (1 fire)
 - Evans Canyon (WA)



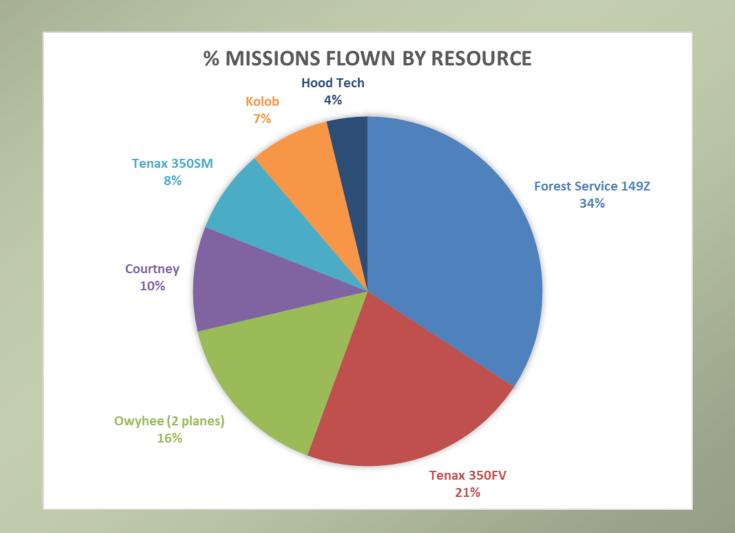
IR Mapping Contracts

- Exclusive Use Tenax
- End Product
 - Courtney Aviation
 - Kolob Canyon
 - Hood Tech
- MAP Owyhee Air





All Hands On Deck

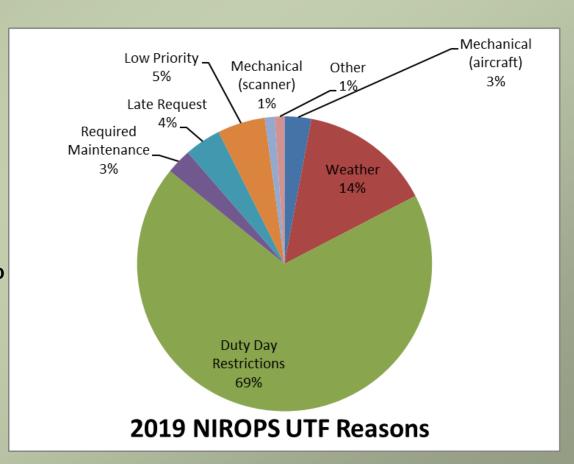






UTFs (Unable to Fill)

- 650 total UTFs (NIROPS only)
- UTF rate drops from 24% to 20% when weather UTFs are not counted
- UTF for Aircraft 3 21%



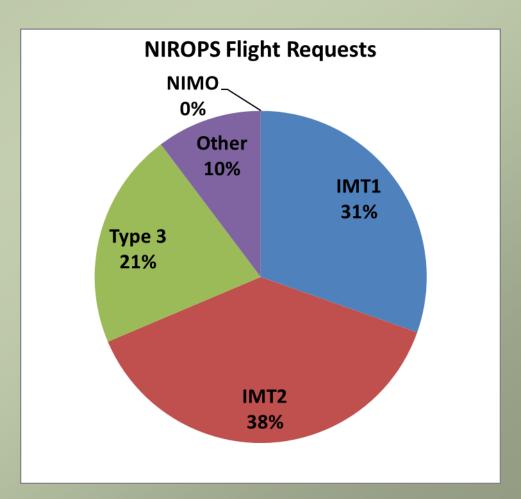




Who is Requesting?

Prioritization is key

Team Type	non-weather UTF rate
Other	37%
Type 3	31%
Type 2	25%
Type 1	18%





Prioritization of Fires for IR

- Type of team assigned Type 1, 2, 3, etc.
- Values at risk, WUI, evacuations
- Priority listings in National IMSR
- GACC priority listings
- Geographic location and grouping of fires
- Activity during the day
 - Satellite fire detections MODIS, VIIRS
 - Plume activity visible satellite
- Consultation with NICC
- Heat detected from previous NIROPS flights
- Expected weather over incident
- Feedback from IRINs

NATIONAL AND OPERATIONS



Extended Support to Incidents

- Red Salmon Cx (CA) 81 flights
- SQF Cx (CA) − 66 flights
- MNF August Cx (CA) 60 flights
- Creek (CA) 51 flights
- Cameron Peak (CO) 48 flights
- East Fork (UT) 44 flights
- Lionshead (OR) 42 flights
- Slater (CA) 40 flights
- Williams Fork (CO) 38 flights
- Bighorn (AZ) 29 flights



It Takes a Team!

- IR Techs 5 person rotation
- Pilots 3 FS fulltime
- 33 different IRINs, 4 trainees got qualified
- Vendors
 - Exclusive Use Tenax
 - End Product Courtney, Kolob, Hood Tech, Owyhee
- Virtual National IR desk activated ABQ and SLC
- Aircraft 3 (Firehawk) AC3 liaison at GTAC and NGA analysts
- R4 Aviation maintenance crew
- Fire Imaging Program Manager key for interacting with vendors and briefing GACCs and IMTs on IR options

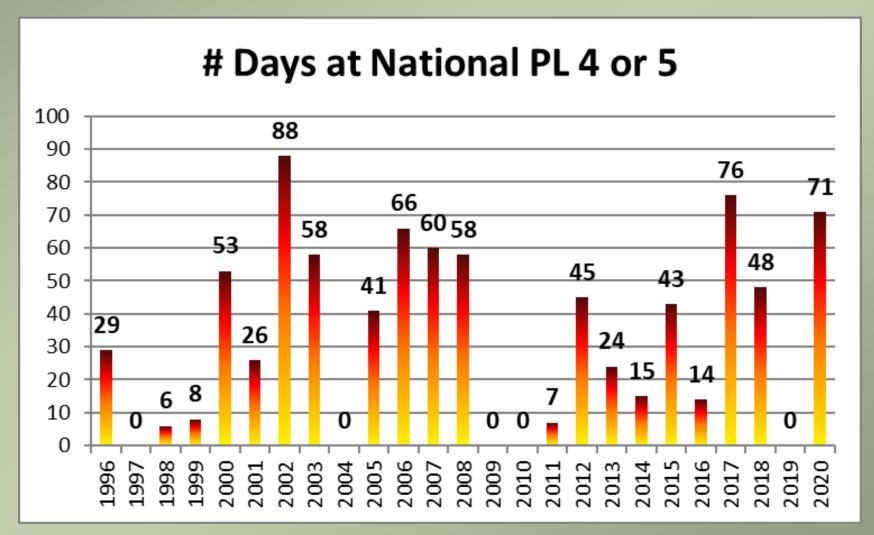


Takeaways from 2020

- Vendor support essential esp. with only one FS plane
- Plane is getting older every year!
 - 149Z 36 years old (1985)
- Coordination with other IR resources is key
 - DRTI, MMA, Owyhee Air, AA51, FS Cobras
 - Can sometimes reduce NIROPS requests



Next Year?.....







Looking ahead to 2021

- La Niña
- XXX.





Get ready for next year!